## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re Application of: Muthiah Manoharan et al.

Serial No.: 10/700,971 Group Art Unit: To Be Determined

Filing Date: November 4, 2003 Examiner: To Be Determined

For: Conjugated Oligomeric Compounds and their use in Gene Modulation

EXPRESS MAIL LABEL INFORMATION
Express Mail Label No: EV147591100US
Date of Deposit: 4/1/2005

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §§ 1.56 and in accordance with 37 C.F.R. §§ 1.97 and 1.98, information relating to the above-identified application is hereby disclosed, the Examiner in charge of the above-identified application is requested to consider and make of record the references listed on the PTO Form SB/08A and PTO Form SB/08B, formerly known as PTO Form 1449 submitted herewith.

Inclusion of the information submitted herewith is not to be construed as an admission that the information is material as that term is defined in 37 C.F.R. § 1.56(b).

In accordance with 37 C.F.R. § 1.97(g), the filing of this Supplemental Information Disclosure Statement shall not be construed to mean that a search has been made.

## This Supplemental Information Disclosure Statement is being filed:

|             | within three months of the filing date of the patent application.  |
|-------------|--|
|             | within three months of the date of entry into the national stage as set forth in 37 C.F.R. § 1.491 of the international application.         |
| $\boxtimes$ | before the mailing date of a first Office Action on the merits.  |
|             | <b>before</b> the mailing date of a first Office Action on the merits after the filing of a Request for Continued Examination under § 1.114. |

|             | of a R                   | the mailing date of a first Office Action on the merits or after the filing equest for Continued Examination under § 1.114, but before the mailing of a Final Office Action under 37 C.F.R. § 1.116 or a Notice of rance under 37 C.F.R. § 1.311, and accordingly is accompanied by:  |  |  |  |
|-------------|--------------------------|---|--|--|--|
|             |                          | the Statement under 37 C.F.R. § 1.97(e) (see "Statement" below);  |  |  |  |
|             |                          | or  |  |  |  |
|             |                          | the Fee of \$180.00 set forth in 37 C.F.R. § 1.17(p); or  |  |  |  |
|             |                          | No fee is owed by the applicant(s).   |  |  |  |
|             | Staten<br>Final<br>C.F.R | cordance with 37 C.F.R. § 1.129(a), this Information Disclosure nent is being filed in connection with the first or second After Submission, and accordingly is accompanied by the Statement under 37 . § 1.97(e) (see "Statement" below) and the fee of \$180.00 as set forth in F.R. § 1.17(p), is attached.  |  |  |  |
|             | Notice with, Staten      | the mailing date of a Final Office Action under 37 C.F.R. § 1.116 or a e of Allowance under 37 C.F.R. § 1.311, but before, or simultaneously the payment of the Issue Fee, and accordingly is accompanied by the nent under 37 C.F.R. § 1.97(e), and the Fee of \$180.00 set forth in 37 . §1.17(p).  |  |  |  |
| $\boxtimes$ | PTO 1                    | Copies of references (except the U.S. Patent documents) listed on the attache PTO Form SB/08A and PTO Form SB/08B, formerly known as PTO Form 1449 are enclosed. Also enclosed is a copy of the International Search Report dated March 24, 2005 for International Application No. PCT/US03/35088.  |  |  |  |
| EXCI        | EPT TH                   | HAT:  |  |  |  |
|             |                          | In view of the voluminous nature of references, and the likelihood that these reference are available to the Examiner, copies are not enclosed herewith.  |  |  |  |
|             |                          | In accordance with 37 C.F.R. § 1.98(d), copies of the following references listed on the attached PTO Form SB/08A and PTO Form SB/08B, formerly known as PTO Form 1449 are not enclosed herewith because they were previously cited by or submitted to the U.S. Patent and Trademark Office in patent application(s) @@ for which a claim for priority under 35 U.S.C. § 120 have been made in the instant application. |  |  |  |
|             |                          | If any of the foregoing publications are not available to the Examiner, Applicant will endeavor to supply copies at the Examiner's request.   |  |  |  |

| State       | nent under 37 C.F.R. § 1.97(e)   |
|-------------|--|
|             | The undersigned attorney hereby states that each item information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign patent application not more than three months prior to the filing of the Information Disclosure Statement.  |
| State       | ment under 37 C.F.R. § 1.704(d)  |
|             | The undersigned attorney hereby states that each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and the communication was not received by any individual designated in §1.56(c) more than 30 days prior to the filing of the Information Disclosure Statement. |
| Fees        |  |
|             | No Fee is owed by the applicant(s).  |
|             | The Supplemental Information Disclosure Statement Fee of \$180.00 under 37 C.F.R. § 1.17(p) is enclosed herewith.  |
|             | The Petition Fee of \$130.00 under 37 C.F.R. § 1.17(i)(1) is enclosed herewith.  |
| Metho       | od of Payment of Fees  |
|             | Attached is a check in the amount of \$ This form is submitted in duplicate.   |
|             | Charge Deposit Account No. 50-1275 in the amount of \$180.00. This form is submitted in duplicate.   |
|             | Please charge any deficiency or credit any overpayment to Deposit Account 50-1275.   |
| $\boxtimes$ | No fee or Statement is required under 37 C.F.R. § 1.97(b) since no First Office Action on the merits has been received by the Applicant.   |

Dated: 4-7-05

COZEN O'CONNOR, P.C. 1900 Market Street, 5<sup>th</sup> Floor Philadelphia, PA 19103-3508 (215) 665-2000 – Telephone (215) 665-2013 - Facsimile Respectfully submitted,

Christine A. Goddard, Ph.D. Registration No. 46,731

PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

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Substitute for form 1449A/PTO

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## INFORMATION DISCLOSURES

(Use as many sheets as necessary)

Sheet 1 of 2

| Complete if Known      |                              |  |  |  |
|------------------------|------------------------------|--|--|--|
| Application Number     | 10/700,971                   |  |  |  |
| Filing Date            | November 4, 2003             |  |  |  |
| First Named Inventor   | Muthiah Manoharan            |  |  |  |
| Art Unit               | To Be Determined             |  |  |  |
| Examiner Name          | To Be Determined             |  |  |  |
| Attorney Docket Number | ISIC0009-101 (CHEM0005US.P1) |  |  |  |

|            | U.S. PATENT DOCUMENTS |  |            |  |                                       |  |
|------------|-----------------------|--|------------|--|---------------------------------------|--|
| Examiner   | Cite<br>No.1          | Document Number Publication/Issue Date     |            | Name of Patentee or Applicant of<br>Cited Document | Pages, Columns, Lines, Where Relevant |  |
| Initials * |                       | Number - Kind Code <sup>2</sup> (if known) | MM-DD-YYYY | Cited Document                                     | Passages or Relevant Figures Appear   |  |
|            | HG                    | US-5,998,588                               | 12-07-1999 | Hoffman et al.                                     |                                       |  |
|            | HI                    | US-2003/0190635 A1                         | 10-09-2003 | McSwiggen et al.                                   |                                       |  |
|            | HJ                    | US-2002/0102267 A1                         | 08-01-2002 | Lu et al.  |                                       |  |
|            | HK                    | US-2002/0151512 A1                         | 10-17-2002 | Peyman et al.                                      |                                       |  |
|            | HL                    | US-2002/0156235 A1                         | 10-24-2002 | Manoharan et al.                                   |                                       |  |
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|               | FOREIGN PATENT DOCUMENTS |   |                                |                                |  |                |  |
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| Examiner Cite |                          | Foreign Patent Document   | Publication                    | Name of Patentee or            | Pages, Columns, Lines,<br>Where Relevant |                |  |
| Initials*     | No.1                     | Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known) | Date/Filing Date<br>MM-DD-YYYY | Applicant of Cited<br>Document | Passages or Relevant<br>Figures Appear   | T <sup>6</sup> |  |
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| Examiner<br>Signature | Date<br>Considered |  |
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

ISIC0009-101 (CHEM0005US.P1)

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number Substitute for form 1449B/PTO Complete if Known Application Number 10/700,971 INFORMATION DISCLOSURE Filing Date November 4, 2003 STATEMENT BY APPLICANT First Named Inventor Muthiah Manoharan Art Unit To Be Determined (Use as many sheets as necessary) Examiner Name To Be Determined

Attorney Docket Number

Sheet

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of | 2

|                        | NON PATENT LITERATURE DOCUMENTS |  |  |  |  |  |
|------------------------|---------------------------------|--|--|--|--|--|
| Examiner<br>Initials * |                                 |  |  |  |  |  |
|                        | НМ                              | Astriab-Fisher et al., "Conjugates of antisense oligonucleotides with the TAT and antennapedia cell-penetrting peptides: effects on cellular update, binding to target sequences and biologic actions," <i>Pharmaceutical Research</i> (2002) 19(6):744-754. |  |  |  |  |
|                        | HN                              | Fire et al., "RNA-triggered gene silencing," TIG (1999) 15(9):358-363.   |  |  |  |  |
|                        | НО                              | Veronese et al., "Bioconjugation in pharmaceutical chemistry," IL Farmaco (1999) 54:497-516.   |  |  |  |  |
|                        | НР                              | International Search Report dated March 24, 2005 for International Application No. PCT/US03/35088.   |  |  |  |  |
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| Examiner  | Date       |  |
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|           |            |  |
| Signature | Considered |  |

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

14-08-05

PTO/SB/21 (09-04)
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| <b>S</b>   | TRANSMITTAL  | Filing Date                                     | November 4, 2003   |    |
|            | FORM   | First Named Inventor                            | Muthiah Manoharan  |    |
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| P          | Sed for all correspondence after initial filing)             | Examiner Name                                   | To Be Determined   |    |
|            | Total Number of Pages in This Submission                     | Attorney Docket Number                          | ISIC0009-101 (CHEM0005US.P1)                               |    |

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| After Final  |   | ition to Convert                             |                        | □F               | Proprietary Info                                       | ormation   |   |
| Affidavits/declaration   | (s) Cha   | wer of Attorney,<br>ange of Corresp<br>dress |                        | □s               | Status Letter  |  |   |
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| Supplemental Information Disclosure Statement  | י 📗 ב   | ] Landscape                                  | Table on CD            | 2005             | 2005 for International Application No. PCT/US03/35088. |  |   |
| Certified Copy of Priority Document(s)  Reply to Missing Parts/ Incomplete Application  Reply to Missing Parts  Reply to Missing Parts  EV147591100US  EV147591100US |   |  |                        |                  |  |  |   |
| under 37 CFR1.52 o   | r 1.53  |  | -                      |                  | -  |  |   |
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| Printed Name   | Christine   | e A. Goddard, Ph.                            | D. <b>/</b>            |                  |  |  |   |
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| Service with sufficient post   | I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below. |  |                        |                  |  |  |   |
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| Typed or printed name  |   |  |                        |                  | Date   |  |   |
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